

|      |  |    |   |
|------|--|----|---|
| 1    | <b>SUPERIMPOSED UNLIKE CURRENTS</b>                | 37 | ..Selective series-parallel connections                   |
| 2    | .AC and DC sources                                 |    |   |
| 3    | .Different frequencies or phase                    | 38 | .Selectively connected or controlled load circuits        |
| 4    | .Different voltages                                |    |   |
| 5    | ..Series-connected                                 | 39 | ..Condition responsive                                    |
| 6    | ...Plural converters                               | 40 | ..Code-controlled   |
| 7    | ....Induction transformer                          | 41 | ..Sequential or alternating                               |
| 8    | ...Plural generators                               | 42 | .Circuit arrangements or layouts                          |
| 9.1  | <b>VEHICLE MOUNTED SYSTEMS</b>                     | 43 | <b>PLURAL SUPPLY CIRCUITS OR SOURCES</b>                  |
| 10.1 | .Automobile  | 44 | .One source floats across or compensates for other source |
| 10.2 | ..Antitheft  |    |   |
| 10.3 | ...Ignition or starting circuit lock               | 45 | ..With intervening converter                              |
|      |  | 46 | ...Storage battery or accumulator-type source             |
| 10.4 | ....Manual code input (e.g., push button)          | 47 | ..Dynamoelectric-type source                              |
| 10.5 | ....Coded record input (e.g., IC card)             | 48 | ..Storage battery or accumulator-type source              |
| 10.6 | ..Ignition or starter circuits                     | 49 | ...With series-connected auxiliary source                 |
| 10.7 | ..Battery protection                               |    |   |
| 10.8 | ..Lighting circuits                                | 50 | ...Tap-changing or variable number of cells               |
| 11   | <b>PLURAL LOAD CIRCUIT SYSTEMS</b>                 | 51 | .Circulating- or inter-current control or prevention      |
| 12   | .Common conductor or return type                   |    |   |
| 13   | ..Polyphase  | 52 | .Load current control                                     |
| 14   | ...Phase balancing                                 | 53 | ..Load current division                                   |
| 15   | ..Voltage divider type                             | 54 | ...Serially connected sources                             |
| 16   | ..Plural output generators                         | 55 | ...Fixed or predetermined ratio                           |
| 17   | .Transformer connections                           | 56 | ....Diverse-or unlike-type sources                        |
| 18   | .Plural sources of supply                          | 57 | ....Plural generators                                     |
| 19   | ..Interconnected for energy transfer               | 58 | ....Plural converters                                     |
| 20   | ...With control of magnitude of energy transfer    | 59 | ...Peak or excess load                                    |
| 21   | ...Diverse sources                                 | 60 | ..Constant load or current                                |
| 22   | ....AC and DC                                      | 61 | ...Serially connected sources                             |
| 23   | ..Substitute or alternate source                   | 62 | ..Load-limiting   |
| 24   | ..With control of magnitude of current or power    | 63 | ..Serially connected sources                              |
| 25   | ..Diverse sources                                  | 64 | .Substitute or emergency source                           |
| 26   | ...AC and DC                                       | 65 | ..Plural substitute sources                               |
| 27   | ...Different frequencies                           | 66 | ..Storage battery or accumulator                          |
| 28   | ...Different voltages                              | 67 | ...With intervening dynamoelectric machine                |
| 29   | ..Selectively connected loads and/or sources       | 68 | ..Dynamoelectric  |
| 30   | .Anticoupling of load circuits through same source | 69 | .Sources distributed along load circuit                   |
| 31   | .Control of current or power                       | 70 | .Load transfer without paralleling sources                |
| 32   | ..Load current proportioning or dividing           | 71 | .Series-parallel connection of sources                    |
| 33   | ..Constant magnitude control                       | 72 | .Diverse or unlike electrical characteristics             |
| 34   | ...By control of one or more load circuits         | 73 | ..Differing frequencies                                   |
| 35   | ..Limit control                                    | 74 | ..Differing capacities                                    |
| 36   | .Serially connected load circuits                  | 75 | ..Differing voltages                                      |

|     |  |     |  |
|-----|--|-----|--|
| 76  | ...Generator sources   | 96  | <b>INTERMITTENT REGULATORY</b>           |
| 77  | .Series-connected sources  |     | <b>INTERRUPTION OF SYSTEM</b>            |
| 78  | ..Generator sources  | 97  | .Condition responsive                    |
| 80  | .Selective or optional sources   | 98  | <b>COMBINED IMPEDANCE AND SWITCH</b>     |
| 81  | ..Predetermined sequence   |     | <b>SYSTEMS</b>                           |
| 82  | .Plural converters   | 99  | .Condition responsive switch             |
| 83  | .Plural transformers   | 100 | <b>SHUNTING OR SHORT CIRCUITING</b>      |
| 84  | .Plural generators   |     | <b>SYSTEMS</b>                           |
| 85  | .Connecting or disconnecting   | 101 | <b>RESIDUAL OR REMANENT MAGNETISM</b>    |
| 86  | ..Condition responsive   |     | <b>CONTROL</b>                           |
| 87  | ...Attainment of voltage,<br>frequency or phase<br>relationship        | 102 | <b>STABILIZED, ANTI-HUNTING OR</b>       |
|     |  |     | <b>ANTIOSCILLATION SYSTEMS</b>           |
| 400 | <b>ELECTRETS</b>   | 103 | <b>WITH LINE DROP COMPENSATION</b>       |
| 401 | <b>NONLINEAR REACTOR SYSTEMS (E.G.,</b>                                | 104 | <b>ELECTROMAGNET OR HIGHLY INDUCTIVE</b> |
|     | <b>SATURABLE)</b>  |     | <b>SYSTEMS</b>                           |
| 402 | .Parametrons   | 105 | <b>WITH HARMONIC FILTER OR</b>           |
| 403 | ..Thin film parametrons  |     | <b>NEUTRALIZER</b>                       |
| 404 | ..Using logic circuits   | 106 | <b>WAVE FORM OR WAVE SHAPE</b>           |
| 405 | ..Using pump energizer   |     | <b>DETERMINATIVE OR PULSE-</b>           |
| 406 | .Magnetic flip-flops   | 107 | <b>PRODUCING SYSTEMS</b>                 |
| 407 | .Logic circuits  |     | .With rectification or                   |
| 408 | ..Multiaperture  | 108 | derectification                          |
| 409 | ..Clocking, delay or transmission<br>line                              | 109 | .With capacitor                          |
|     |  | 110 | <b>CAPACITOR</b>                         |
| 410 | ..Nor, Not logic circuit   |     | .Parallel-charge, series-                |
| 411 | ..Exclusive Or, And logic circuit                                      |     | discharge (e.g., voltage                 |
| 412 | .Driver circuits   | 111 | doublers)                                |
| 413 | .Signal sensor (e.g., current or<br>frequency)                         |     | <b>NONRESPONSIVE-TO-FREQUENCY-CHANGE</b> |
| 414 | .Magnetic trigger devices  | 650 | <b>SYSTEMS</b>                           |
| 415 | .Magnetic switching circuits   |     | <b>WITH NONSWITCHING MEANS</b>           |
| 416 | .Amplifiers using nonlinear<br>reactors (i.e., magnetic<br>amplifiers) | 651 | <b>RESPONSIVE TO EXTERNAL</b>            |
|     |  | 652 | <b>NONELECTRICAL CONDITION</b>           |
| 417 | ..With transistors   | 653 | .Temperature responsive                  |
| 418 | ..With feedback  |     | .Responsive to approach or               |
| 419 | .Magnetic pulse generator  |     | passage of an object                     |
| 420 | ..Using multivibrator  | 112 | .Flame responsive (e.g., flame           |
| 421 | ..With specified output waveform                                       | 113 | acts as a rectifier in                   |
| 422 | .Multiaperture   | 114 | circuit)                                 |
| 423 | ..Three apertures or ladder  | 115 | <b>SWITCHING SYSTEMS</b>                 |
| 424 | .Parametric frequency converter  | 116 | .Plural switches                         |
| 326 | <b>PERSONNEL SAFETY OR LIMIT CONTROL</b>                               | 117 | ..Lazy-man switch type                   |
|     | <b>FEATURES</b>  |     | ..Selectively actuated                   |
| 327 | .Parasitic current suppression   | 118 | .Condition responsive                    |
| 328 | .Interlock   |     | ..Light, heat, vibratory or              |
| 89  | <b>ANTI-INDUCTION OR COUPLING TO</b>                                   |     | radiant energy                           |
|     | <b>OTHER SYSTEMS</b>   |     | ..Fluid pressure, density, level,        |
| 90  | .Inducing current control  | 119 | velocity or humidity                     |
| 91  | .Magnetic or electrostatic field<br>control (e.g., shielding)          | 120 | ..Mechanical force                       |
|     |  | 121 | ...Speed, centrifugal or kinetic         |
| 95  | <b>ANTI-ELECTROLYSIS</b>   | 122 | force                                    |
|     |  |     | ....Inertia or acceleration              |
|     |  |     | ....Direction of rotation                |

- 123     ...Differential speed between  
          two bodies
- 124     ...Torque
- 125     ..Electrical
- 126     ...Power or energy
- 127     ...Polarity, phase sequence or  
          reverse flow
- 128     ...AC or DC discriminating
- 129     ...Frequency
- 130     ...Voltage
- 131     ...Current
- 132 R    ..Repetitive make and break
- 132 E    ..Electronically controlled relay
- 132 EA   ..Responsive to physical  
          condition
- 132 T    ..Thermal relay
- 132 V    ..Vibrating relay
- 132 M    ..Miscellaneous
- 134     ..With operation facilitating  
          feature
- 135     ..Preliminary reduction in  
          current or voltage of system
- 137     ..Switch contact conditioning
- 138     ...Polarity reversing
- 139     ..Switch actuation
- 140     ..Power circuit controlled
- 141     ..With time delay or retardation  
          means
- 141.4    ...Electrically initiated
- 141.8    ...Series connected switches
- 142     ..With locking, holding or  
          braking means
- 143     ..Electrical actuator
- 144     ..Fluid-pressure actuator
- 145     **WITH CURRENT COLLECTION OR  
          TRANSFER**
- 146     **UNIDIRECTIONAL CONDUCTOR SYSTEMS**
- 147     **CONDUCTOR ARRANGEMENTS OR  
          STRUCTURE**
- 148     ..Multipart-conductor current  
          equalization
- 149     **MISCELLANEOUS SYSTEMS**
- 150     ..Power packs
- 151     ..Conversion systems
- 152     ..Rate of change responsive  
          systems
- 153     ..Generator control systems
- 154     ..For particular load device
- 155     ..Plural diverse load devices
- 156     ...Structural load device  
          combinations
- 157     ..Lamp or discharge device

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